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1   Inferring aliasing and encapsulation properties for java

Kin-Keung Ma, Jeffrey S. Foster
October 2007   ACM SIGPLAN Notices,   Volume 42 Issue 10
Publisher: ACM

Full text available: pdf(416.23 KB)   Additional Information: full citation, abstract, references, index terms

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There are many proposals for language techniques to control aliasing and encapsulation in object oriented programs, typically based on notions of object ownership and pointer uniqueness. Most of these systems require extensive manual annotations, and ...

Keywords: aliasing, encapsulation, java, lending, ownership, ownership inference, uniqueness, uniqueness inference, uno

2 Inferring aliasing and encapsulation properties for java

Kin-Keung Ma, Jeffrey S. Foster

October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on Object oriented programming systems and applications

Publisher: ACM

Full text available: pdf(416.23 KB) Additional Information: full citation, abstract, references, index terms

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3 Type-based publish/subscribe: Concepts and experiences

Patrick Eugster

January 2007 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 29 Issue 1

Publisher: ACM

Full text available: pdf(822.39 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 379, Citation Count: 0

A continuously increasing number of interconnected computer devices makes the requirement for programming abstractions for remote one-to-many interaction yet more stringent. The publish/subscribe paradigm has been advocated as a candidate abstraction ...

Keywords: Abstraction, Java, distribution, generics, publish/subscribe, reflection, type

4 Type-Safe linking with recursive DLLs and shared libraries

Dominic Duggan

November 2002 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 24 Issue 6

Publisher: ACM

Full text available: pdf(658.62 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 42, Citation Count: 5

Component-based programming is an increasingly prevalent theme in software development, motivating the need for expressive and safe module interconnection languages. Dynamic linking is an important requirement for module interconnection languages, as ...

Keywords: Dynamic Linking, Module Interconnection Languages, Recursive Modules, Shared Libraries

5 JTL: the Java tools language

Tal Cohen, Joseph (Yossi) Gil, Itay Maman
October   OOPSLA '06: Proceedings of the 21st annual ACM SIGPLAN conference on
2006   Object-oriented programming systems, languages, and applications
Publisher: ACM

Full text available: pdf(386.63 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 134,   Citation Count: 2

We present an overview of JTL (the Java Tools Language, pronounced "Gee-tel"), a novel language for querying JAVA [8] programs. JTL was designed to serve the development of source code software tools for JAVA, and as a small language which to aid programming ...

Keywords: declarative programming, reverse engineering

6 Permission-based ownership: encapsulating state in higher-order typed languages

Neel Krishnaswami, Jonathan Aldrich
June   PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on Programming
2005   language design and implementation
Publisher: ACM

Full text available: pdf(247.65 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 42,   Citation Count: 5

Today's module systems do not effectively support information hiding in the presence of shared mutable objects, causing serious problems in the development and evolution of large software systems. Ownership types have been proposed as a solution to this ...

Keywords: domains, lambda calculus, modularity, ownership types, permissions, state, system f, type theory

7 Permission-based ownership: encapsulating state in higher-order typed languages

Neel Krishnaswami, Jonathan Aldrich
June   ACM SIGPLAN Notices,   Volume 40 Issue 6
2005
Publisher: ACM

Full text available: pdf(247.65 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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Keywords: domains, lambda calculus, modularity, ownership types, permissions, state, system f, type theory

8 Ownership confinement ensures representation independence for object-oriented programs

Anindya Banerjee, David A. Naumann
November   Journal of the ACM (JACM),   Volume 52 Issue 6
2005
Publisher: ACM

Full text available: pdf(664.37 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 95,   Citation Count: 4

Representation independence formally characterizes the encapsulation provided by language constructs for data abstraction and justifies reasoning by simulation. Representation independence has been shown for a variety of languages and constructs but ...

Keywords: Alias control, confinement, data refinement, relational parametricity, simulation

9 JTL: the Java tools language

Tal Cohen, Joseph (Yossi) Gil, Itay Maman
October 2006 ACM SIGPLAN Notices, Volume 41 Issue 10
Publisher: ACM

Full text available: pdf(386.63 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 134, Citation Count: 2

We present an overview of JTL (the Java Tools Language, pronounced "Gee-tel"), a novel language for querying JAVA [8] programs. JTL was designed to serve the development of source code software tools for JAVA, and as a small language which to aid programming ...

Keywords: declarative programming, reverse engineering

10 Relationally-parametric polymorphic contracts

Arjun Guha, Jacob Matthews, Robert Bruce Findler, Shriram Krishnamurthi
October 2007 DLS '07: Proceedings of the 2007 symposium on Dynamic languages
Publisher: ACM

Full text available: pdf(428.25 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 0

The analogy between types and contracts raises the question of how many features of static type systems can be expressed as dynamic contracts. An important feature missing in prior work on contracts is parametricity, as represented by the polymorphic ...

Keywords: contracts, parametricity, polymorphism

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